

12. (AMENDED) A terminal station used in a radio LAN system having rate-conversion-and-distribution means for time-divisionally distributing a first signal of a first transmission rate into  $n-1$  second signals ( $n = 3, 4, \dots$ ) and respectively converting said  $n-1$  second signals into  $n-1$  third signals of a second transmission rate less than said first transmission rate,  $n-1$  radio base stations transmitting said  $n-1$  third signals of the second transmission rate to said terminal station connected to at least one terminal unit through radio transmission paths, at least one redundant radio base station  $n$  transmitting a signal to said terminal station, first line monitoring means for monitoring interruption of transmission paths between said  $n-1$  radio base stations and said terminal station, and first switching means, when at least one of said transmission paths is interrupted, for forwarding a signal to be transmitted through an interrupted transmission path to said at least one redundant radio base station  $n$ ; said terminal station comprising:

a receiver receiving said third signals of the second transmission rate transmitted from said  $n-1$  radio base stations;

rate-conversion-and-multiplex means for converting and multiplexing received third signals of the second transmission rate into signals of said first transmission rate;

second line monitoring means for monitoring interruption of transmission paths between said  $n-1$  radio base stations and said terminal station; and

second switching means, when at least one of said transmission paths is interrupted, for providing the signal transmitted [form] from said redundant radio base station to said rate-conversion-and-multiplex means instead of providing a signal to be transmitted through an interrupted transmission path;